

REMARKS

By this Amendment, claims 1 and 4 are amended to merely clarify the recited subject matter and Fig. 2 is corrected to conform to the teachings of the specification and correct typographical errors. Claims 1-9 are pending.

Although Applicants have amended claim 1 as instructed by the Office Action, Applicants note that the objected to material in claim 4 appears to be a problem with the USPTO's scanning; the copy filed had no such error.

Although claims 7-9 have been deemed allowed and claims 5 and 1-3 were deemed to include allowable subject matter, claims 4 and 6 were rejected under 35 U.S.C. 102(e) as being anticipated by Azami (U.S. 6,702,407). Applicants submit that the amendment to claim 1 places claims 1-3 in allowable format. Additionally, Applicants traverse the rejection of claims 4 and 6 because Azami fails to disclose, teach or suggest the claimed invention wherein first, second and third periods (e.g., Rr SELECTION, Rg SELECTION and Rb SELECTION) which define operations of first, second and third analog switches (e.g., ASW-1, ASW-2 and ASW-3) in response to first, second and third control signals (e.g., ASW-R, ASW-G and ASW-B) as illustrated in Figs. 1-4, respectively.

Azami merely discloses a gray-scale power supply line supplied to a source signal line driving circuit is made only one system, and each of D/A conversion circuits drives source signal lines in which three source signal lines corresponding to RGB are made a unit and the number of which is a multiple of 3. The periods in which respective source line selecting circuits select source signal lines corresponding to respective colors of the RGB are made synchronous with each other, and the power supply voltage applied to the gray-scale power supply line is changed in one horizontal writing period, so that power supply voltages corresponding to R, G and B are respectively applied to the gray-scale power supply line in periods while the source signal lines of R, G and B are respectively selected.

However, Azami fails to teach or suggest the use of a signal supply circuit that includes a first switch to connect said first signal line to said digital-to-analog conversion circuit during a first period during which said first reference gray scale signal is outputted; a second switch to connect said second signal line to said digital-to-analog circuit during said first period and a second period during which said second reference gray scale signal is outputted; and a third switch to connect said third signal line to said digital-to-analog circuit during said first and second periods and a third period during which said third reference gray scale signal is outputted.

As explained in the specification, during the first and second periods (e.g., Rr SELECTION and Rg Selection), the third switch (e.g., ASW-3) connects third signal line (X3) to digital-to-analog circuit (D/A); additionally, during a third period (e.g., Rb SELECTION), the third reference gray scale (i.e., reference resistor switch Sb turns on) is output. In other words, the third analog switch operates in response to the third switching control signal for period (“B” PERIOD) in a total of first, second and third periods (e.g., Rr SELECTION, Rg SELECTION and Rb SELECTION).

However, Azami fails to disclose, teach or suggest the claimed display device because Azami’s teachings are limited to a gray-scale power supply line supplied to a source signal line driving circuit is made only one system, and each of D/A conversion circuits drives source signal lines in which three source signal lines corresponding to RGB are made a unit and the number of which is a multiple of 3.

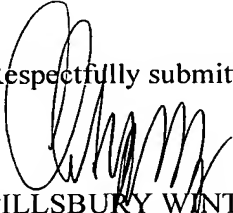
Thus, claim 4 and its dependent claims are patentable over Azami.

In view of the above amendments and remarks, Applicants respectfully submit that all the claims are allowable and that the entire application is in condition for allowance.

Should the Examiner believe that anything further is desirable to place the application in better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Please charge any fees associated with the submission of this paper to Deposit Account Number 033975. The Commissioner for Patents is also authorized to credit any over payments to the above-referenced Deposit Account.

Respectfully submitted,



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Attachment: One (1) Replacement Drawing Sheet of Figure 2

IN THE DRAWING(S):

The attached replacement sheet of drawing includes changes to Figure 2 whereby the following amendments now read as follows. This sheet replaces the original sheet showing Figure 2.

1. X2(R1): Amended to read as X2(G1)
2. X3(R1): Amended to read as X3(B1)
3. X5(R2): Amended to read as X5(G2)
4. X6(R2): Amended to read as X6(B2)

Attachment: One (1) Replacement Sheet.